

# Product data sheet

Specifications



## Symmetra PX 160kW, 400V

SY160K160H

### Overview

Presentation	Modular, high-efficiency 3-phase UPS that is scalable as your data center grows up to 160kW/160kVA. Suitable for small, medium & large data center applications.
Lead Time	Usually Ships within 3 Weeks

### Main

Main Input Voltage	400 V 3 phases
Other Input Voltage	380 V 415 V
Main Output Voltage	230 V 400 V 3 phases
Rated Power In W	160000 W
Rated Power In Va	160000 VA
Output Connector Type	Hard wire 5-wire (3P + N + E) 1
Battery Type	VRLA
Provided Equipment	Network management card Start-up service User manual

### Batteries & Runtime

Run Time	<a href="#">View Runtime Graph</a>
Efficiency	<a href="#">View Efficiency Graph</a>
Number Of Battery Filled Slots	15
Number Of Battery Free Slots	3
Battery Recharge Time	3.5 h
Number Of Battery Replacement Quantity	4
Additional Information	Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Battery Voltage	+/- 192 V (split battery referenced to neutral)
Discharge Battery Voltage	+/- 154 V
Overcurrent Protection	945 A
Maximum Short-Circuit Current	10 kA
Max Current Discharge	552 A
Battery Overload Operation	10 minutes at 125% and 60 seconds at 150%
Battery Charger Power	14769 W rated
Battery Design Life	5...8 year(s)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Extended Runtime	1
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## General

Bypass Wiring Configuration	5 wire (3P + N + E)
Max Bypass Input Current	250 A
Bypass Current Protection	250 A
Number Of Power Module Free Slots	0
Number Of Power Module Filled Slots	10
Redundant	Yes

## Physical

Colour	Black
Height	199.1 cm
Width	180 cm
Depth	107 cm
Net Weight	2812 kg
Usb Compatible	No

## Input

Network Frequency	40...70 Hz
Number Of Input Connectors	1 hard wire 5-wire (3P + N + E)
Input Voltage Limits	340...477 V
Maximum Input Current	295 A
Switching Current Capacity	315 A
Max Short Time Withstand Current	30 kA
Input Harmonic Distortion	Less than 5 % for full load
Load Power Factor	0.5 leading to 0.5 lagging
Input Power Factor At Full Load	0.99

## Output

Maximum Configurable Power In W	160000 W
Harmonic Distortion	Less than 2 %
Output Frequency	50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised
Ups Type	Double conversion online
Wave Type	Sine wave
Output Voltage Tolerance	+/- 1% static and +/- 5% at 100% load step
Output Harmonic Distortion	< 2% for 0 to 100% linear load and < 6% for full non-linear load
Output Overload Operation	10 minutes at 125% and 60 seconds at 150%
Required Output Current Protection	250 A
Neutral Output Current	400 A
Bypass Type	Built-in static bypass

Efficiency	94 % (in battery operation)
Maximum Configurable Power In Va	160000 VA

## Conformance

Product Certifications	EUROBAT
Standards	EN 50091-1 EN/IEC 62040-1-1 EN/IEC 62040-2 EN/IEC 62040-3 ISO 14001 ISO 9001 VFI-SS-111

## Environmental

Ambient Air Temperature For Operation	0...40 °C
Relative Humidity	0...95 %
Operating Altitude	0...3333 ft
Ambient Air Temperature For Storage	-15...40 °C
Storage Relative Humidity	0...95 %
Storage Altitude	0.00...15240.00 m
Acoustic Level	63 dBA
Heat Dissipation	28741 Btu/h
Nema Degree Of Protection	NEMA 1
Ip Degree Of Protection	IP20

## Communications & Management

Free Slots	2
Preinstalled Device	Network management card with CAN
Control Panel	Multifunction LCD status and control console
Emergency Power Off	Yes

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	214 cm
Package 1 Width	121 cm
Package 1 Length	255.4 cm
Package 1 Weight	3051 kg

## Contractual warranty

Warranty	1 year on-site repair or replace with factory authorized Start-Up
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


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Energy Efficient

## Resource performance

 Energy Efficient Product

Eu Rohs Directive

Not compliant